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DATA COMMUNICATIONS AND COMPUTER NETWORKS Computer Networks Data Communications Computer Network CRYPTOGRAPHY AND NETWORK SECURITY Ad Hoc and Sensor Networks Ad Hoc and Sensor Networks Distributed Computing Network Reliability Technologies and Protocols for the Future of Internet Design: Reinventing the Web Data Communication And Computer Networks Encyclopedia on Ad Hoc and Ubiquitous Computing Computer Networks Computer and Cyber Security Data Communication and Computer Networks Computer Networks (16-7201-00S) Ad Hoc Networks Embedded Sensor Systems COMPUTER NETWORKS QoS Routing Algorithms for Wireless Sensor Networks Fundamentals Of Computer Networks An Introduction to Computer Networks Computer Networks Computer Networks Game Theoretic Problems in Network Economics and Mechanism Design Solutions Data Communications Computer Networks and Internets Data Communications And Computer Networks 2Nd Ed. Computer Networks (Mdu) Computer Networks Computer Networks:A Systems Approach, 4e Computer Networks and Internets Computer Networks: Protocols Standards And Interfaces 2Nd Ed. Distributed Computing and Networking International Conference on Computer Networks and Communication Technologies Advances in Computer Science and Engineering Computer Networks Algorithmic Aspects of Wireless Sensor Networks Cyber Warfare Modeling and Simulation of Computer Networks and Systems Advances in distributed system reliability

DATA COMMUNICATIONS AND COMPUTER NETWORKS 2013-11-02 primarily intended as a text for undergraduate courses in electronics and communications engineering computer science it courses and computer applications this up to date and accessible text gives an indepth analysis of data communications and computer networks in an easy to read style though a new title it is a completely revised and fully updated version of the author s earlier book data communications the rapid strides made during the last decade in the fields of data communication and networking and the close link between these two subjects have prompted the author to add several chapters on computer networks in this text the book gives a masterly analysis of topics ranging from the principles of data transmission to computer networking applications it also provides standard protocols thereby enabling to bridge the gap between theory and practice what s more it correlates the network protocols to the concepts which are explained with the help of numerous examples to facilitate students understanding of the subject this well organized text presents the latest developments in the field and details current topics of interest such as multicasting mpls ipv6 gigabit ethernets ipsec ssl auto negotiation wireless lans network security differentiated services and adsl besides students the practicing professionals would find the book to be a valuable resource the book in its second edition introduces a full chapter on quality of service highlighting the meaning parameters and functions required for quality of service this book is recommended in kaziranga university nagaland iit guwahati assam and west bengal university of technology wbut west bengal for b tech key features the book is self contained and student friendly the sequential organization lends flexibility in designing courses on the subject large number of examples diagrams and tables illustrate the concepts discussed in the text numerous exercises with answers a list of acronyms and references to protocol standards

Computer Networks 1996 the book is intended for the undergraduate and postgraduate students of computer science and engineering and information technology and the students of master of computer applications the purpose of this book is to introduce this subject as a comprehensive text which is self contained and covers all the aspects of network security each chapter is divided into sections and subsections to facilitate design of the curriculum as per the academic needs the text contains numerous examples and illustrations that enhance conceptual clarity each chapter has set of problems at the end of chapter that inspire the reader to test his understanding of the subject answers to most of the problems are given at the end of the book key features the subject matter is illustrated with about 200 figures and numerous examples at every stage of learning the list of recommended books technical articles and standards is included chapter wise at the end of the book an exhaustive glossary and a list of frequently used acronyms are also given the book is based on the latest versions of the protocols tls ike ipsec s mime kerberos x 509 etc

Data Communications 2009 this book provides a comprehensive yet easy coverage of ad hoc and sensor networks and fills the gap of existing literature in this growing field it emphasizes that there is a major interdependence among various layers of the network protocol stack contrary to wired or even one hop cellular networks the lack of a fixed infrastructure the inherent mobility the wireless channel and the underlying routing mechanism by ad hoc and sensor networks introduce a number of technological challenges that are difficult to address within the boundaries of a single protocol layer all existing textbooks on the subject often focus on a specific aspect of the technology and fail to provide critical insights on cross layer interdependencies to fully understand these intriguing networks one need to grasp specific solutions individually and also the many interdependencies and cross layer interactions

Computer Network 2014-11-01 this book provides a comprehensive yet easy coverage of ad hoc and sensor networks and fills the gap of existing literature in this growing field it emphasizes that there is a major interdependence among various layers of the network protocol stack contrary to wired or even one hop cellular networks the lack of a fixed infrastructure the inherent mobility the wireless channel and the underlying routing mechanism by ad hoc and sensor networks introduce a number of

technological challenges that are difficult to address within the boundaries of a single protocol layer all existing textbooks on the subject often focus on a specific aspect of the technology and fail to provide critical insights on cross layer interdependencies to fully understand these intriguing networks one need to grasp specific solutions individually and also the many interdependencies and cross layer interactions *CRYPTOGRAPHY AND NETWORK SECURITY* 2011-02-28 the internet has changed significantly from its beginnings as a simple network used to pass data from one computer to another containing essential tools for everyday information processing the internet is used by small and large organizations alike and continues to evolve with the changing information technology landscape technologies and protocols for the future of internet design reinventing the aims to provide relevant methods and theories in the area of the internet design it is written for the research community and professionals who wish to improve their understanding of future internet technologies and gain knowledge of new tools and techniques in future internet design

Ad Hoc and Sensor Networks 2011 data communication and computer networks deals with various aspects of the subject vis À vis the emerging trends in network centric information technology it provides the reader with an in depth framework of the fundamental concepts networking involves

Ad Hoc and Sensor Networks 1990 ad hoc and ubiquitous computing technologies have received extensive attention in both the academia and industry with the explosive growth of wireless communication devices these technologies are beneficial for many applications such as offering futuristic high bandwidth access for users and are expected to offer more exciting and efficient services anytime and anywhere in order to satisfy these diverse applications the design issues of various wireless networks such as ad hoc sensor and mesh networks are extremely complicated and there are a number of technique challenges that need to be explored involving every layer of the osi protocol stack this book aims to provide a complete understanding of these networks by investigating the evolution of ad hoc sensor and mesh networking technologies from theoretic concept to implementation protocols from fundamentals to real applications it provides the necessary background material needed to go deeper into the subject and explore the research literature the explanation in the book is therefore sufficiently detailed to serve as a comprehensive reference for students instructors researchers engineers and other professionals building their understanding of these networks

Distributed Computing Network Reliability 2012-02-29 comprehensive in scope this text covers applied and practical elements theory and the reasons for the design of applications and security techniques it covers both the management and the engineering issues of computer security and provides excellent examples of how disparate techniques and principles are combined in widely used systems

Technologies and Protocols for the Future of Internet Design: Reinventing the Web 2009-11-01 the text book is written in simple and easily understandable language this book can be used as a self study guide for compter science students i made dr prakash kumar sincere attempts to analyse every important topic completely and put before the reader of this book in the best presentable form this book is uniquely different from many other books in a number of ways some of the unique features of the book are as under beginner to advanced apporoach to the subject simple and easy understandable language include examples to illustrate concept systematic and sequential arrangement of different topics it can be used for one semester or one quarter course eminently suitable for self study detailed study of important topics such as communication system osi model ethernet lan network security and cryptography

Data Communication And Computer Networks 2010 this book identifies the time dependent network parameters neighbour count link load path length cluster count and delay and presents a first of its kind discussion on temporal parameters in mobile ad hoc networks frequent topology changes and multiple link failures occur in mobile ad hoc network due to arbitrary and random movement of nodes this dynamic

environment challenges the delivery of data and makes it essential to find better models for network parameters that are shifting with time the parameters identified are put into the framework of time series because of their temporal characteristic and when they are modelled using time series framework they exhibit a sound fit with autoregressive ar p models of order p the order p is evaluated for each fitted model and found to lie between one and three the book also analyses the dependence of end to end delay of ad hoc network on various external factors such as the number of nodes routing protocol mobility models and path length and develops two prediction models the book will be useful for researchers and professionals alike

Encyclopedia on Ad Hoc and Ubiquitous Computing 2007 this inspiring textbook provides an essential introduction to wireless technologies for sensors explores the potential use of sensors for numerous applications and utilizes probability theory and mathematical methods as a means of embedding sensors in system design the book discusses the need for synchronization and underlying limitations the interrelation between given coverage and connectivity to the number of sensors needed and the use of geometrical distance to determine the location of the base station for data collection while also exploring the use of anchor nodes to determine the relative positions of sensors the book addresses energy conservation communication using tcp the need for clustering and data aggregation and residual energy determination and energy harvesting together with key topics in sensor communication like mobile base stations and relay nodes delay tolerant sensor networks and remote sensing and potential applications the book defines routing methods and performance evaluation for random and regular sensor topology and covers sensor based intrusion detection the book focuses on applications such as interaction with actuators final design with respect to a given application personal and body area networks for health care applications and sensor networks as an integral component of the iot the importance of both coverage and connectivity is examined thoroughly in both randomly deployed sensor networks for defense applications and regularly placed sensors for an industrial setup the content includes exercises as well as design based project concepts the book s comprehensive coverage makes it well suited for use as a textbook for graduate and upper undergraduate courses or as course material for professional courses

Computer Networks 2018-11-26 welcome to the world of computer networks in an era where communication and connectivity are the backbone of our digital society understanding the intricacies of computer networks is more crucial than ever this book aims to be your comprehensive guide to the fundamental concepts protocols and technologies that form the foundation of modern networking a journey through computer networks is designed to cater to a ranging from students eager to grasp the basics to professionals seeking to deepen their understanding of networking principles as the demand for efficient and secure communication continues to grow this book equips you with the knowledge and skills necessary to navigate the complex landscape of computer networks

Computer and Cyber Security 2021-03-02 this book provides a systematic introduction to the fundamental concepts major challenges and effective solutions for quality of service in wireless sensor networks wsns unlike other books on the topic it focuses on the networking aspects of wsns discussing the most important networking issues including network architecture design medium access control routing and data dissemination node clustering node localization query processing data aggregation transport and quality of service time synchronization and network security featuring contributions from researchers this book strikes a balance between fundamental concepts and new technologies providing readers with unprecedented insights into wsns from a networking perspective it is essential reading for a broad audience including academics research engineers and practitioners particularly postgraduate postdoctoral researchers and engineers in industry it is also suitable as a textbook or supplementary reading for graduate computer engineering and computer science courses

Data Communication and Computer Networks 2017

this book is to make available to the students a book that contains the subject matter that they need to know all the concepts are explained in a simple and lucid style and in a compact way this book begins with an introduction to computer networks and then necessary aspects of signals are presented then all the layers of the osi and tcp reference models are well explained in depth with necessary diagrams other important aspects like network security www multimedia data compression are also covered salient features sections are divided thoughtfully keeping the interest and aptitude of the students each chapter ends with a set of questions for students to answer examinations question papers are also included at the end of book

Computer Networks (16-7201-00S) 2018-12-16 an introduction to computer networks is a comprehensive text book which is focused and designed to elaborate the technical contents in the light of tcp ip reference model exploring both digital and analog data communication various communication protocols of different layers are discussed along with their pseudo code this book covers the detailed and practical information about the network layer alongwith information about ip including ipv6 ospf and internet multicasting it also covers tcp congestion control and emphasizes on the basic principles of fundamental importance concerning the technology and architecture and provides detailed discussion of leading edge topics of data communication lan network layer

Ad Hoc Networks 2017-02-04 this monograph focuses on exploring game theoretic modeling and mechanism design for problem solving in internet and network economics for the first time the main theoretical issues and applications of mechanism design are bound together in a single text

Embedded Sensor Systems 2023-11-27 this book constitutes the refereed proceedings of the 8th international conference on distributed computing and networking icdcn 2006 held in guwahati india in december 2006 coverage in this volume includes ad hoc networks distributed computing and algorithms security grid and p2p computing performance evaluation internetworking protocols and applications optical networks and multimedia sensor networks and wireless networks

COMPUTER NETWORKS 2020-04-11 the book features research papers presented at the international conference on computer networks and inventive communication technologies iccnct 2018 offering significant contributions from researchers and practitioners in academia and industry the topics covered include computer networks network protocols and wireless networks data communication technologies and network security covering the main core and specialized issues in the areas of next generation wireless network design control and management as well as in the areas of protection assurance and trust in information security practices these proceedings are a valuable resource for researchers instructors students scientists engineers managers and industry practitioners

QoS Routing Algorithms for Wireless Sensor Networks 2010-11-01 this book constitutes the reviewed proceedings of the 5th international workshop on algorithmic aspects of wireless sensor networks algosensors 2009 held in rhodes greece july 10 11 2009 the 21 full papers and two brief announcements were carefully selected from 41 submissions this workshops aimed at bringing together research contributions related to diverse algorithmic and complexity theoretic aspects of wireless sensor networks the topics include but are not limited to optimization problems noise and probability robots and tours

Fundamentals Of Computer Networks 2011 this book features a wide spectrum of the latest computer science research relating to cyber warfare including military and policy dimensions it is the first book to explore the scientific foundation of cyber warfare and features research from the areas of artificial intelligence game theory programming languages graph theory and more the high level approach and emphasis on scientific rigor provides insights on ways to improve cyber warfare defense worldwide cyber warfare building the scientific foundation targets researchers and practitioners working in cyber security especially government employees or contractors advanced level students in computer science and electrical engineering with an interest in security will also find this content valuable as

secondary textbook or reference

An Introduction to Computer Networks 1991-02-01 modeling and simulation of computer networks and systems methodologies and applications introduces you to a broad array of modeling and simulation issues related to computer networks and systems it focuses on the theories tools applications and uses of modeling and simulation in order to effectively optimize networks it describes methodologies for modeling and simulation of new generations of wireless and mobiles networks and cloud and grid computing systems drawing upon years of practical experience and using numerous examples and illustrative applications recognized experts in both academia and industry discuss important and emerging topics in computer networks and systems including but not limited to modeling simulation analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks methodologies strategies and tools and strategies needed to build computer networks and systems modeling and simulation from the bottom up different network performance metrics including mobility congestion quality of service security and more modeling and simulation of computer networks and systems is a must have resource for network architects engineers and researchers who want to gain insight into optimizing network performance through the use of modeling and simulation discusses important and emerging topics in computer networks and systems including but not limited to modeling simulation analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks provides the necessary methodologies strategies and tools needed to build computer networks and systems modeling and simulation from the bottom up includes comprehensive review and evaluation of simulation tools and methodologies and different network performance metrics including mobility congestion quality of service security and more

Computer Networks 1997-01-01

Computer Networks 2010-10-22

Game Theoretic Problems in Network Economics and Mechanism Design Solutions 1996

Data Communications 2008

Computer Networks and Internets 2006-06

Data Communications And Computer Networks 2Nd Ed. 2009

Computer Networks (Mdu) 1999

Computer Networks 2009-01-01

Computer Networks:A Systems Approach, 4e 2002

Computer Networks and Internets 1996

Computer Networks: Protocols Standards And Interfaces 2Nd Ed. 2007-03-05

Distributed Computing and Networking 2018-09-17

International Conference on Computer Networks and Communication Technologies 2005

Advances in Computer Science and Engineering 2000

Computer Networks 2009-12-24

Algorithmic Aspects of Wireless Sensor Networks 2015-04-09

Cyber Warfare 2015-04-21

Modeling and Simulation of Computer Networks and Systems 1990

Advances in distributed system reliability